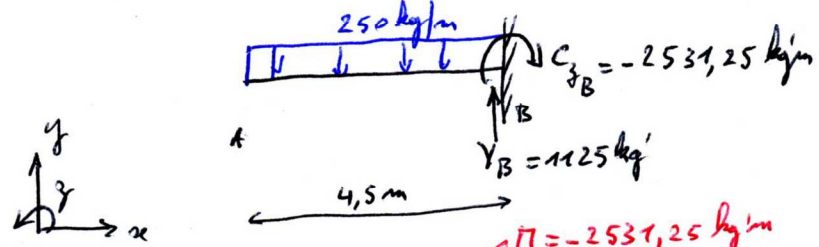


• charge répartie sur les poutres encastées

$$p = 250 \text{ kg/m}^2 \cdot \frac{2 \text{ m}}{2} = 250 \text{ kg/m}$$

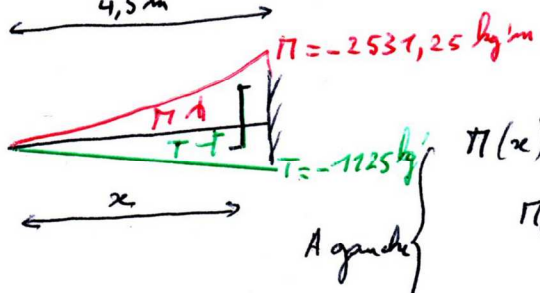
• Schéma statique



$$Y_B - 250 \text{ kg/m} \cdot 4,5 \text{ m} = 0 \Rightarrow Y_B = 1125 \text{ kg}'$$

$$C_B + 250 \text{ kg/m} \cdot 4,5 \text{ m} \cdot \frac{4,5 \text{ m}}{2} = 0$$

$$\Rightarrow C_B = -2537,25 \text{ kg}'\text{m}$$



$$M(x) + 250 \cdot x \cdot \frac{x}{2} = 0 \Rightarrow M(x) = -125 x^2$$

$$M(4,5) = M_{\text{max}} = -2537,25 \text{ kg}'\text{m}$$

$$-T(x) - 250 \cdot x = 0 \Rightarrow T(x) = -250 x$$

$$T(4,5) = T_{\text{max}} = -250 \cdot 4,5 = -1125 \text{ kg}'$$